J. TUNG

ENTERED

```
 3 <110> APPLICANT: Bridgham, John
 4        Corcoran, Kevin P.
 5        Golda, George S.
 6        Pallas, Michael C.
 7        Brenner, Sydney
 9 <120> TITLE OF INVENTION: Planar Arrays of Microparticle-Bound
10        Polynucleotides
12 <130> FILE REFERENCE: 55525-8035.US00
14 <140> CURRENT APPLICATION NUMBER: US 09/424,028A
15 <141> CURRENT FILING DATE: 1999-11-16
17 <150> PRIOR APPLICATION NUMBER: PCT/US98/11224
18 <151> PRIOR FILING DATE: 1998-05-22
20 <150> PRIOR APPLICATION NUMBER: US 08/862,610
21 <151> PRIOR FILING DATE: 1997-05-23
23 <160> NUMBER OF SEQ ID NOS: 19
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 78
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: primer
35 <221> NAME/KEY: misc_feature
36 <222> LOCATION: (26)...(57)
37 <223> OTHER INFORMATION: n = A,T,C or G
39 <400> SEQUENCE: 1
40 actaatcgtc tcactattta attaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnggt       60
41 tttttttttt ttttttttv                                                  78
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 17
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: synthetic fragment
51 <400> SEQUENCE: 2
52 ataggggtct tcggtac                                                    17
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 19
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: synthetic cleavage adaptor
62 <400> SEQUENCE: 3
63 gatcagctgc tgcaaattt                                                  19
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 30
67 <212> TYPE: DNA
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W--> 40

RAW SEQUENCE LISTING   DATE: 12/12/2001
PATENT APPLICATION: US/09/424,028A   TIME: 11:47:31

Input Set : A:\55525-8035.US00-SEQLIST.TXT
Output Set: N:\CRF3\12112001\I424028A.raw

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         68 <213> ORGANISM: Artificial Sequence
         70 <220> FEATURE:
         71 <223> OTHER INFORMATION: synthetic encoded adaptor
         73 <221> NAME/KEY: misc_feature
         74 <222> LOCATION: (2)...(4)
         75 <223> OTHER INFORMATION: n = A,T,C or G
         77 <400> SEQUENCE: 4
W-->  78 annntacagc tgcatccctt ggcgctgagg                        30
         80 <210> SEQ ID NO: 5
         81 <211> LENGTH: 30
         82 <212> TYPE: DNA
         83 <213> ORGANISM: Artificial Sequence
         85 <220> FEATURE:
         86 <223> OTHER INFORMATION: synthetic encoded adaptor
         88 <221> NAME/KEY: misc_feature
         89 <222> LOCATION: (1)...(4)
         90 <223> OTHER INFORMATION: n = A,T,C or G
         92 <400> SEQUENCE: 5
W-->  93 nanntacagc tgcatccctg ggcctgtaag                        30
         95 <210> SEQ ID NO: 6
         96 <211> LENGTH: 30
         97 <212> TYPE: DNA
         98 <213> ORGANISM: Artificial Sequence
        100 <220> FEATURE:
        101 <223> OTHER INFORMATION: synthetic encoded adaptor
        103 <221> NAME/KEY: misc_feature
        104 <222> LOCATION: (2)...(4)
        105 <223> OTHER INFORMATION: n = A,T,C or G
        107 <400> SEQUENCE: 6
W--> 108 cnnntacagc tgcatccctt gacgggtctc                        30
        110 <210> SEQ ID NO: 7
        111 <211> LENGTH: 30
        112 <212> TYPE: DNA
        113 <213> ORGANISM: Artificial Sequence
        115 <220> FEATURE:
        116 <223> OTHER INFORMATION: synthetic encoded adaptor
        118 <221> NAME/KEY: misc_feature
        119 <222> LOCATION: (1)...(4)
        120 <223> OTHER INFORMATION: n = A,T,C or G
        122 <400> SEQUENCE: 7
W--> 123 ncnntacagc tgcatccctg cccgcacagt                        30
        125 <210> SEQ ID NO: 8
        126 <211> LENGTH: 30
        127 <212> TYPE: DNA
        128 <213> ORGANISM: Artificial Sequence
        130 <220> FEATURE:
        131 <223> OTHER INFORMATION: synthetic encoded adaptor
        133 <221> NAME/KEY: misc_feature
        134 <222> LOCATION: (2)...(4)
```

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RAW SEQUENCE LISTING          DATE: 12/12/2001
PATENT APPLICATION:  US/09/424,028A    TIME: 11:47:31

Input Set : A:\55525-8035.US00-SEQLIST.TXT
Output Set: N:\CRF3\12112001\I424028A.raw
```

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        135 <223> OTHER INFORMATION: n = A,T,C or G
        137 <400> SEQUENCE: 8
W--> 138 gnnntacagc tgcatcccct cgcctcggac                    30
        140 <210> SEQ ID NO: 9
        141 <211> LENGTH: 30
        142 <212> TYPE: DNA
        143 <213> ORGANISM: Artificial Sequence
        145 <220> FEATURE:
        146 <223> OTHER INFORMATION: synthetic encoded adaptor
        148 <221> NAME/KEY: misc_feature
        149 <222> LOCATION: (1)...(4)
        150 <223> OTHER INFORMATION: n = A,T,C or G
        152 <400> SEQUENCE: 9
W--> 153 ngnntacagc tgcatccctg atccgctagc                    30
        155 <210> SEQ ID NO: 10
        156 <211> LENGTH: 30
        157 <212> TYPE: DNA
        158 <213> ORGANISM: Artificial Sequence
        160 <220> FEATURE:
        161 <223> OTHER INFORMATION: synthetic encoded adaptor
        163 <221> NAME/KEY: misc_feature
        164 <222> LOCATION: (2)...(4)
        165 <223> OTHER INFORMATION: n = A,T,C or G
        167 <400> SEQUENCE: 10
W--> 168 tnnntacagc tgcatcccct ccgaacccgc                    30
        170 <210> SEQ ID NO: 11
        171 <211> LENGTH: 30
        172 <212> TYPE: DNA
        173 <213> ORGANISM: Artificial Sequence
        175 <220> FEATURE:
        176 <223> OTHER INFORMATION: synthetic encoded adaptor
        178 <221> NAME/KEY: misc_feature
        179 <222> LOCATION: (1)...(4)
        180 <223> OTHER INFORMATION: n = A,T,C or G
        182 <400> SEQUENCE: 11
W--> 183 ntnntacagc tgcatccctg aggggatag                     30
        185 <210> SEQ ID NO: 12
        186 <211> LENGTH: 30
        187 <212> TYPE: DNA
        188 <213> ORGANISM: Artificial Sequence
        190 <220> FEATURE:
        191 <223> OTHER INFORMATION: synthetic encoded adaptor
        193 <221> NAME/KEY: misc_feature
        194 <222> LOCATION: (1)...(4)
        195 <223> OTHER INFORMATION: n = A,T,C or G
        197 <400> SEQUENCE: 12
W--> 198 nnantacagc tgcatcccct cccgctacac                    30
        200 <210> SEQ ID NO: 13
        201 <211> LENGTH: 30
```

RAW SEQUENCE LISTING   DATE: 12/12/2001
PATENT APPLICATION: US/09/424,028A   TIME: 11:47:31

Input Set : A:\55525-8035.US00-SEQLIST.TXT
Output Set: N:\CRF3\12112001\I424028A.raw

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        202 <212> TYPE: DNA
        203 <213> ORGANISM: Artificial Sequence
        205 <220> FEATURE:
        206 <223> OTHER INFORMATION: synthetic encoded adaptor
        208 <221> NAME/KEY: misc_feature
        209 <222> LOCATION: (1)...(3)
        210 <223> OTHER INFORMATION: n = A,T,C or G
        212 <400> SEQUENCE: 13
W--> 213 nnnatacagc tgcatcccctg actccccgag                          30
        215 <210> SEQ ID NO: 14
        216 <211> LENGTH: 30
        217 <212> TYPE: DNA
        218 <213> ORGANISM: Artificial Sequence
        220 <220> FEATURE:
        221 <223> OTHER INFORMATION: synthetic encoded adaptor
        223 <221> NAME/KEY: misc_feature
        224 <222> LOCATION: (1)...(4)
        225 <223> OTHER INFORMATION: n = A,T,C or G
        227 <400> SEQUENCE: 14
W--> 228 nncntacagc tgcatcccctg tgttgcgcgg                          30
        230 <210> SEQ ID NO: 15
        231 <211> LENGTH: 30
        232 <212> TYPE: DNA
        233 <213> ORGANISM: Artificial Sequence
        235 <220> FEATURE:
        236 <223> OTHER INFORMATION: synthetic encoded adaptor
        238 <221> NAME/KEY: misc_feature
        239 <222> LOCATION: (1)...(3)
        240 <223> OTHER INFORMATION: n = A,T,C or G
        242 <400> SEQUENCE: 15
W--> 243 nnnctacagc tgcatccctc tacagcagcg                           30
        245 <210> SEQ ID NO: 16
        246 <211> LENGTH: 30
        247 <212> TYPE: DNA
        248 <213> ORGANISM: Artificial Sequence
        250 <220> FEATURE:
        251 <223> OTHER INFORMATION: synthetic encoded adaptor
        253 <221> NAME/KEY: misc_feature
        254 <222> LOCATION: (1)...(4)
        255 <223> OTHER INFORMATION: n = A,T,C or G
        257 <400> SEQUENCE: 16
W--> 258 nngntacagc tgcatcccctg tcgcgtcgtt                          30
        260 <210> SEQ ID NO: 17
        261 <211> LENGTH: 30
        262 <212> TYPE: DNA
        263 <213> ORGANISM: Artificial Sequence
        265 <220> FEATURE:
        266 <223> OTHER INFORMATION: synthetic encoded adaptor
        268 <221> NAME/KEY: misc_feature
```

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          RAW SEQUENCE LISTING              DATE: 12/12/2001
          PATENT APPLICATION:   US/09/424,028A      TIME: 11:47:31

          Input Set : A:\55525-8035.US00-SEQLIST.TXT
          Output Set: N:\CRF3\12112001\I424028A.raw
```
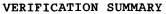
```
        269 <222> LOCATION: (1)...(3)
        270 <223> OTHER INFORMATION: n = A,T,C or G
        272 <400> SEQUENCE: 17
W--> 273 nnngtacagc tgcatccctc ggagcaacct                    30
        275 <210> SEQ ID NO: 18
        276 <211> LENGTH: 30
        277 <212> TYPE: DNA
        278 <213> ORGANISM: Artificial Sequence
        280 <220> FEATURE:
        281 <223> OTHER INFORMATION: synthetic encoded adaptor
        283 <221> NAME/KEY: misc_feature
        284 <222> LOCATION: (1)...(4)
        285 <223> OTHER INFORMATION: n = A,T,C or G
        287 <400> SEQUENCE: 18
W--> 288 nntntacagc tgcatccctg gtgaccgtag                    30
        290 <210> SEQ ID NO: 19
        291 <211> LENGTH: 30
        292 <212> TYPE: DNA
        293 <213> ORGANISM: Artificial Sequence
        295 <220> FEATURE:
        296 <223> OTHER INFORMATION: synthetic encoded adaptor
        298 <221> NAME/KEY: misc_feature
        299 <222> LOCATION: (1)...(3)
        300 <223> OTHER INFORMATION: n = A,T,C or G
        302 <400> SEQUENCE: 19
W--> 303 nnnttacagc tgcatccctc ccctgtcgga                    30
```

VERIFICATION SUMMARY   DATE: 12/12/2001
PATENT APPLICATION: US/09/424,028A   TIME: 11:47:32

Input Set : A:\55525-8035.US00-SEQLIST.TXT
Output Set: N:\CRF3\12112001\I424028A.raw

```
L:40  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:78  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:93  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
```